AMENDMENTS TO THE CLAIMS

1-35. **(Canceled)**

36. **(Currently Amended)** A method for targeting a target polypeptide for ubiquitin-dependent proteolysis in a ~~eukaryotic~~ mammalian cell, comprising:

providing a ~~eukaryotic~~ mammalian cell comprising a hybrid polypeptide that comprises (i) an F-box ~~consisting of~~ comprising an amino acid sequence that is encoded by ~~the~~ a nucleotide sequence ~~in~~ that is at least about 95% identical to SEQ ID NO: [[3]] 49 ~~that encodes amino acids 148-192 of SEQ ID NO: 4 or a functional homolog or portion thereof~~, and (ii) a target polypeptide interaction domain that binds to the target polypeptide, wherein the F-box recruits the hybrid polypeptide to a Skp1/Cul 1/F-box protein (SCF) ubiquitin ligase complex, thereby targeting the target polypeptide for ubiquitin-dependent proteolysis in the ~~eukaryotic~~ mammalian cell.

37-38. **(Canceled)**

39. **(Previously Presented)** The method of claim 36, wherein said ubiquitin-dependent proteolysis is by the proteasome.

40-45. **(Canceled)**

46. **(Previously Presented)** The method of claim 36, wherein the target polypeptide is targeted for proteolysis in vitro.

47. **(Canceled)**

48. **(Previously presented)** The method of claim 36, wherein the target polypeptide interaction domain is selected from the group consisting of a papillomavirus E7 polypeptide, and an SV40 LTP polypeptide.

49. **(Currently amended)** The method of claim 36, wherein the target polypeptide is selected from the group consisting of a retinoblastoma polypeptide, a p107 polypeptide, IκB, ~~Sic1p~~ Sic1, ~~Cln2p~~ Cln2, a papillomavirus E2 polypeptide ~~or~~ and beta- catenin.

50-60. **(Canceled)**

61. **(Currently Amended)** The method of claim 36, wherein the hybrid polypeptide further ~~comprising~~ comprises a WD domain consisting essentially of an amino acid sequence selected from the group consisting of amino acids 260-293 of SEQ ID NO: 4; amino acids 305-333 of SEQ ID NO: 4; amino acids 345-373 of SEQ ID NO: 4; amino acids 388-416 of SEQ ID NO: 4;

amino acids 428-456 of SEQ ID NO: 4; amino acids 468-497 of SEQ ID NO: 4 and amino acids 518-546 of SEQ ID NO: 4.

62. **(Canceled)**

63. **(Currently amended)** The method of claim ~~62~~ 36, wherein the mammalian cell is a human cell.

64. **(Canceled)**

65. **(Currently Amended)** A method for targeting a target polypeptide for ubiquitin-dependent proteolysis in a ~~eukaryotic~~ mammalian cell, comprising:

providing a ~~eukaryotic~~ mammalian cell comprising a hybrid polypeptide that comprises (i) ~~a peptide~~ an amino acid sequence that is encoded by ~~the nucleotide sequence~~ a nucleic acid that hybridizes under stringent hybridization conditions including a wash step at 65 °C to ~~set forth in~~ a nucleic acid consisting of SEQ ID ~~NOs~~ NO: [[3]] 48 ~~or functional homolog or portion thereof~~, and (ii) a target polypeptide interaction domain that binds to the target polypeptide, wherein the peptide recruits the hybrid polypeptide to an SCF ubiquitin ligase complex, thereby targeting the target polypeptide for ubiquitin-dependent proteolysis in the ~~eukaryotic~~ mammalian cell.

66-70. **(Canceled)**

71. **(New)** The method of claim 36, wherein the amino acid sequence is encoded by a nucleotide sequence that is at least about 98% identical to SEQ ID NO: 49.

72. **(New)** The method of claim 71, wherein the amino acid sequence is encoded by a nucleotide sequence that is at least about 99% identical to SEQ ID NO: 49.

73. **(New)** The method of claim 72, wherein the amino acid sequence is encoded by a nucleotide sequence that is identical to SEQ ID NO: 49.

74. **(New)** The method of claim 36, wherein the amino acid sequence is encoded by a nucleotide sequence that is at least about 95% identical to SEQ ID NO: 3.

75. **(New)** The method of claim 74, wherein the amino acid sequence is encoded by a nucleotide sequence that is at least about 98% identical to SEQ ID NO: 3.

76. **(New)** The method of claim 75, wherein the amino acid sequence is encoded by a nucleotide sequence that is identical to SEQ ID NO: 3.

77. **(New)** The method of claim 65, wherein the amino acid sequence is encoded by a nucleic acid that hybridizes under stringent hybridization conditions including a wash step at 65 °C to a nucleic acid consisting of SEQ ID NO: 3.

78. **(New)** The method of claim 36, wherein the mammalian cell is a murine cell.

79. **(New)** The method of claim 65, wherein the mammalian cell is a human cell.

80. **(New)** The method of claim 65, wherein the mammalian cell is a murine cell.